

Remarks

This is responsive to the Office Action mailed August 26, 2003. A petition for one month extension of time is filed herewith.

The indication of allowability of claims 5, 8, 10, 13, 14, 17, 18, 20, 22-24, 28, and 31-34, is noted with appreciation. Respective allowable claims have not yet been rewritten in independent form with all of the limitations of the base claim and intervening claims, as it is respectfully requested that the rejection of other claims (including respective base claims) be withdrawn for the reasons expressed below.

Withdrawal of the rejection of claims 1-4, 6, 7, 9, 11, 12, 15, 16, 19, 21, 25-27, 29, and 30 under 35 U.S.C. §102(b) respectfully is requested for the following reasons. (It is noted that at page 3 of the Office Action where the listing of rejected claims is presented, there is a typographical error in that the numbers "9" and "11" are duplicated, and between the numbers "19" and "21" there is a hyphen, but it is believed that the hyphen actually should be a comma, as is consistent with the listing of rejected claims at box 6 on the Office Action Summary, the allowance of claim 20 at box 7 on the Office Action Summary, and the fact that no comments concerning the rejection of claim 20 are presented in the Office Action between the comments concerning claim 19 and claim 21 at page 5 of the Office Action.)

Referring to the rejection of claim 1 and to claims 2-4, 11, 12, 21, and 25-27, which depend from claim 1, such claims recite "a macrocyclic molecule arrangement in at least one of a substantially one dimensional stack arrangement or a two dimensional arrangement." The reference, Simic-Glavaski (U.S. Patent No. 4, 804,930), does not disclose such arrangements. In the Office Action reference is made to Figure 6 of Simic-Glavaski. That drawing figure shows a single molecule; it does not show a macrocyclic molecule arrangement as claimed in claim 1, for example; there is no substantially one dimensional stack arrangement or substantially two dimensional arrangement. An example of such arrangements is illustrated in Fig. 14 of the instant patent application. Thus, the applied reference does not anticipate the subject matter of these claims.

Referring to claim 6 and to claims 7 and 9, which depend directly or indirectly from claim 6, these claims include a recitation, "a macrocyclic molecule arrangement in at least one of a substantially one dimensional stack arrangement or a two dimensional arrangement." For the reasons expressed above with respect to claim 1, for example, the subject matter of claims 6, 7 and 9 would not be anticipated by Simic-Glavaski.

Referring to claim 15 and also to claim 16, which depends from claim 15, there is recited a step of "applying an input to an arrangement of macrocyclic molecules in at

least one of a substantially one dimensional stack-like or ring-like structure or a substantially two dimensional sheet-like structure." Fig. 6 of Simic-Glavaski shows a single macrocyclic molecule. That molecule is not shown in an arrangement of at least one of a substantially one dimensional stack-like or ring-like structure or a substantially two dimensional sheet-like structure. Therefore, the subject matter of claims 15 and 16 is not anticipated by Simic-Glavaski.

Referring to claim 19, Simic-Glavaski does not disclose the energy efficiency of 30kT/bit of information. Also, Simic-Glavaski does not disclose the organized "structural combinations of at least one of one dimensional wire-like ring-stacked, or two dimensional sheet-like ring-fused phthalocyanines." Thus, the subject matter of claim 19 is not anticipated by Simic-Glavaski.

Referring to claim 29, a method step is recited "tailoring number of peaks in a cyclic voltammogram representation of operation of the device according to the number of stacked rings in the 'wire.'" However, there is no disclosure in Simic-Glavaski of stacked rings, and, therefore, the claimed tailoring according to the number of stacked rings, as is set forth in claim 29, is not anticipated by Simic-Glavaski.

Referring to claim 30, a method step of "arranging a plurality of macrocyclic molecules in a substantially one dimensional ring-like stack or in a substantially two dimensional sheet-like arrangement" is claimed. As was mentioned above, Simic-Glavaski does not disclose a substantially one dimensional ring-like stack or a substantially two dimensional sheet-like arrangement. Thus, Simic-Glavaski does not anticipate the subject matter of claim 30.

For the above reasons the claimed subject matter set forth in the rejected claims is not anticipated by Simic-Glavaski, and, therefore, the rejection of such claims should be withdrawn.

It is believed that all claims in this application are allowable. Accordingly, this application is believed to be in condition for allowance.

No fee is required for filing this amendment other than the extension of time fee, which is referred to in the accompanying Petition for Extension of Time. However, if an additional fee is required, please charge that fee to applicant's attorney Deposit Account No. 18-0988.

If the Examiner has any further questions, he is invited to telephone applicant's attorney at the number below.

Respectfully submitted,

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CERTIFICATE OF MAILING (37 CFR 1.8a)

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Date: Dec. 26, 2003


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